

INDUSTRIAL WASTE FACT SHEET (NEDO)

Entity: Zirconium Corporation of America

County: Cuyahoga

Address: P.O. Box 39217
Solon, Ohio 44139

Tel. No.: 248-0500 (216)

Contact: ; Richard Bretz
Pender

Title: Supr. Quality Control

Type Activity: Preparation of Zirconium Oxides for refractories

Water Supply: municipal (City of Solon) - 110,000 gpd

Character Raw Wastewater: High in Calcium Silicates, Chlorides, Setttable solids

Volume of Discharge: 100,000 gpd

No. Employees: 80

Shifts: 1+

Character of Effluent:

Wastewater Treatment Facilities: Wastes are neutralized in sump with lime slurry.
Then to 375' x 150' x 9' lagoon, followed by 2 - 150' x 150' sand filters.

Evaluation of Existing Facilities:

Sanitary Treatment Facilities: municipal 10,000 gpd

Evaluation of Sanitary Treatment Facilities: not applicable

Receiving Stream: Storm Sewer (Solon), tributary of Tinker's Creek, Tinkers Creek

Effect on Groundwater: Questionable - but lagoon to be phased out

Location of Nearby Wells: None in area.

Previous WPCB Permit No: 1189.18

Expiration Date: 10-1-71

Previous Orders: Provide satisfactory operation and maintenance, submission of
monthly reports, notification of spills and/or process changes.

Compliance with Previous Orders: Monthly reports not submitted. Did not report
HF spill of April

Comments: 4000#/day refinery

HF storage tank exploded in April, spilled acid washed into large lagoon with
fire hose. Tank was of approx. 5000 gal. capacity. Analysis of sample collected
June 7, 1972, indicate Fluoride concentration of 2.2 mg/l.

Plans for automatic neutralization and filtration system to be submitted in a
month by Corning Glass in New York.

US EPA RECORDS CENTER REGION 5



424698

Entity: Zirconium Corp. of America

County: Cuyahoga

Location: 31501 Solon Road
Solon, Ohio 44139

Referred to Enc. _____

Returned to Bd. _____

New Permit No.: 1189.19

Rec. Exp. Date: _____

Fac: Adequate

Disch: I.W.

Attain

Cp.: Adequate

FINDINGS:

1. (26) That Zirconium Corporation of America hereafter in this document, will be referred to as "This entity".
2. (4) Previous Orders
 - a. Provide satisfactory maintenance and operation of existing facilities for the treatment and disposal of industrial wastes and sanitary sewage in accordance with approved Water Quality Standards.
 - b. Submit to the Division of Engineering, at regular monthly intervals, reports to include information regarding flow volumes and pertinent analytical data on the industrial waste discharges.
 - c. Promptly report to the Division of Engineering the occurrence and cause of any accidental or intermittent discharges of wastes which may have a deleterious effect on the receiving stream.
 - d. Submit to the Division of Engineering information pertaining to any plant expansion or process changes which may affect the character of the industrial waste discharges, together with a proposal for providing controls for such discharges so that there will be no deleterious affect on the receiving stream.
3. (Sp) That this entity has complied with above orders a and d dated November 12, 1970.
4. (Sp) That this entity has not complied with orders b and c dated November 12, 1970.
5. (Sp) Up to 4000 gallons of hydrofluoric acid were washed into the industrial waste treatment lagoon when the hydrofluoric acid storage tank ruptured. This incident was not reported to the Division of Engineering.
6. (9) Existing facil. capable of meeting W.Q.S.
7. (3) Has provided adeq. oper.
8. (24) Is tech. feas. & econ. reas.

ORDERS:

1. (1) Provide optimum oper. and main.
2. (2b) Subm. monthly reports
3. (2a) Summary by February 1, 1973; 1972
4. (23) Subm. by October 1, 1972, anal, and map
5. (3) Immed. report spills
6. (19) Subm. inform on plant expan. with proposal for controls.

*Lagoon to be pumped out & sludge disposed of in
acceptable manner*